

**PETITION FOR REVIVAL OF AN INTERNATIONAL APPLICATION FOR  
PATENT DESIGNATING THE U.S. ABANDONED UNINTENTIONALLY UNDER  
37 CFR 1.137(b)**

Docket Number (Optional)  
- 7368

First Named Inventor: POLICICCHIO, Nicola John

International (PCT) Application No.: PCT/US99/26579

U.S. Application No.: 09/831480  
(if known)

Filed: 09 November 1999 (09.11.99)

Title: Cleaning Composition, Pad, Wipe, Implement, and System and Method of Use Thereof

Attention: PCT Legal Staff  
Box PCT  
Assistant Commissioner for Patents  
Washington, D.C. 20231

The above-identified application became abandoned as to the United States because the fees and documents required by 35 U.S.C. 371( c) were not filed prior to the expiration of the time set in 37 CFR 1.494(b) or ( c) or 1.495(b) or ( c) (as applicable). The date of abandonment is the day after the date on which the 35 U.S.C. 371( c) requirements were due. See 37 CFR 1.494(h) or 1.495(i).

**APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION**

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Proper reply;
- (3) Terminal disclaimer with disclaimer fee – required for all international applications having an international filing date before June 8, 1995; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee

- ☐ Small entity - fee \$ \_\_\_\_\_ (37 CFR 1.17(m))
- ☐ Small entity statement enclosed herewith.
- ☐ Small entity statement previously filed.
- ☒ Other than small entity - fee \$ 1,210 (37 CFR 1.17(m))

2. Proper reply

- A. The proper reply (the missing 35 U.S.C. 371( c) requirements) in the form of  
Form PTO-1390, Declaration Combined With Power of Attorney, Preliminary Amendment and Associate  
Power of Attorney  
(identify type of reply):
- ☐ has been filed previously on \_\_\_\_\_.
- ☒ is enclosed herewith.

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[Page 1 of 2]

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

3. Terminal disclaimer with disclaimer fee

☐ Since this international application has an international filing date on or after June 8, 1995, no terminal disclaimer is required.

☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$\_\_ for a small entity or \$\_\_ for other than a small entity) equivalent to the period of abandonment is enclosed herewith (see PTO/SB/63).

4. Statement. The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional.

14 June 01

Date

Telephone Number: (513) 627-7025



Signature

T. David Reed, US Reg. No. 32,931

Address:

Patent Division - International  
The Procter & Gamble Company  
Ivorydale Technical Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217

THE COMMISSIONER IS HEREBY AUTHORIZED TO CHARGE ANY FEE(S) INCLUDING THE FEE(S) DUE UNDER 37 CFR 1.17(M) ASSOCIATED WITH THIS PETITION TO DEPOSIT ACCOUNT NO. 16-2480.

Enclosures: ☒ Fee Payment  
☒ Reply  
(Form PTO-1390, Declaration Combined With Power of Attorney, Preliminary Amendment and Associate Power of Attorney)  
☐ Terminal Disclaimer Form  
☐ Small Entity Status Form  
☐ \_\_\_\_\_

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

7368

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)  
09/831480

INTERNATIONAL APPLICATION NO.  
PCT/US99/26579

INTERNATIONAL FILING DATE  
09 November 1999 (09.11.99)

PRIORITY DATE CLAIMED  
09 November 1998 (09.11.98)

**TITLE OF INVENTION**

Cleaning Composition, Pad, Wipe, Implement, And System And Method Of Use Thereof

**APPLICANT(S) FOR DO/EO/US**

POLICICCHIO, Nicola John et al

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
  2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
  3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(l).
  4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
  5. ☒ A copy of the International Application was filed (35 U.S.C. 371(c)(2))
    - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
    - b. ☐ has been transmitted by the International Bureau.
    - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
  6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
  7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
    - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
    - b. ☐ have been transmitted by the International Bureau.
    - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
    - d. ☒ have not been made and will not be made.
  8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
  9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
  10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
- Items 11. To 16. Below concern document(s) or information included:
11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
  12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
  13. ☒ A **FIRST** preliminary amendment.
 

☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
  14. ☐ A substitute specification.
  15. ☒ A change of power of attorney and/or address letter.
  16. ☐ Other items or information:

"Express Mail" mailing label number \_\_\_\_\_

Date of Deposit \_\_\_\_\_

I hereby certify that this paper/fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to The Assistant Commissioner of Patents, Washington, D.C. 20231.

\_\_\_\_\_  
Administrator Mailing Application.

\_\_\_\_\_  
Signature

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 09/831480		INTERNATIONAL APPLICATION NO. PCT/US99/26579		ATTORNEY'S DOCKET NUMBER 7368	
				CALCULATIONS      PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =				<b>\$840.00</b>	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total Claims	86-20 =	66	x \$22.00	\$1188	
Independent Claims	22-3 =	19	x \$78.00	\$1520	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			\$250.00	\$	
TOTAL OF ABOVE CALCULATIONS =				<b>\$3548</b>	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$0	
TOTAL NATIONAL FEE =				<b>\$3548</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28,3.31). \$40.00 per property +				\$0	
TOTAL FEES ENCLOSED =				<b>\$3548</b>	
				Amount to be Refunded	\$
				Charged	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ ____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>16-2480</u> in the amount of \$ <u>3548</u> to cover the above fees.                A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>16-2480</u>. A duplicate copy of this sheet is enclosed.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p>					
J.J. Camp, Patent Attorney Customer Number				<div style="text-align: center;">           _____          Signature       </div> <div style="margin-top: 10px;"> <u>T. David Reed</u>          Name  <u>32,931</u>          Registration Number       </div>	

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

CLEANING COMPOSITION, PAD, WIPE, IMPLEMENT, AND SYSTEM AND METHOD OF USE THEREOF  
the specification of which

☐ is attached hereto.

☒ was filed on November 9, 1999 as United States Application No.

                                 or PCT International Application Number PCT/US99/26579  
and was amended on                                  (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations §1.56.

I hereby claim foreign priority benefits under Title 35 United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐  
Yes

☐  
No

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

60/162,935

11/2/99

60/110,476

12/1/98

Application Serial No.

Filing Date

Application Serial No.

Filing Date

60/156,286

9/27/99

Application Serial No.

Filing Date

Application Serial No.

Filing Date

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (If applicable)
09/188,604		11/09/98	
09/201,618		11/30/98	

As named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Atty Name                      Atty Reg Number.

Jason J. Camp                      44,582

Darryl C. Little                      40,703

Jacobus C. Rasser                      37,043

T. David Reed                      32,931

DIRECT ALL CORRESPONDENCE TO:

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Sharon Woods Technical Center, 11520 Reed Hartman Highway, Cincinnati, Ohio 45241-2422

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's signature Nicola John Policicchio

4-4-00

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Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the matter of :  
 :  
 :  
U.S. National Phase Entry :  
Under 35 U.S.C. 371 from :  
The International Application of: :  
Applicants: POLICICCHIO, Nicola, et al. :  
Int'l App. No. PCT/US99/26579 : Group Art Unit  
Filed in the RO/US on 9 November 1999 : Examiner  
Title: CLEANING COMPOSITION, PAD, :  
WIPE, IMPLEMENT, AND SYSTEM :  
AND METHOD OF USE THEREOF :

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

Dear Sir:

Please amend the above-identified application as follows:

IN THE CLAIMS:

Before calculating the filing fee, please cancel Claims 1-28 without prejudice and enter the following New Claims 29-114:

29. (New) A cleaning implement comprising:

(a) a handle; and

(b) a removable cleaning pad comprising:

(i) a liquid pervious scrubbing layer comprising an apertured formed film; and

(ii) an absorbent layer comprising superabsorbent material.

30. (New) The cleaning implement of Claim 29, wherein said handle comprises a fluid dispenser.

31. (New) The cleaning implement of Claim 29, wherein said removable cleaning pad further comprises an attachment layer.

32. (New) The cleaning implement of Claim 31, wherein said attachment layer comprises a material selected from the group consisting of a translucent film, loop material, adhesive tape, and combinations thereof.

33. (New) The cleaning implement of Claim 32, wherein said attachment layer comprises a clear polyethylene film.

34. (New) The cleaning implement of Claim 33, wherein said attachment layer further comprises loop material.

35. (New) The cleaning implement of Claim 29, wherein said removable cleaning pad further comprises at least two absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

36. (New) The cleaning implement of Claim 35, wherein said removable cleaning pad further comprises at least three absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

37. (New) A cleaning pad comprising:

- (a) a liquid pervious scrubbing layer comprising an apertured formed film; and
- (b) an absorbent layer comprising superabsorbent material;

wherein said cleaning pad has resiliency of at least about 95%.

38. (New) The cleaning pad of Claim 37, wherein said cleaning pad further comprises at least two absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

39. (New) The cleaning pad of Claim 37, wherein said cleaning pad further comprises an attachment layer.

40. (New) The cleaning pad of Claim 39, wherein said attachment layer comprises a polyethylene film.

41. (New) The cleaning pad of Claim 40, wherein said polyethylene film is clear.

42. (New) The cleaning pad of Claim 41, wherein said attachment layer further comprises loop material.

43. (New) A method of cleaning a hard surface comprising wiping said surface with a cleaning pad comprising:



- (a) a liquid pervious scrubbing layer comprising an apertured formed film; and
  - (b) an absorbent layer comprising superabsorbent material.
44. (New) The method of Claim 43, wherein said hard surface is an inanimate surface.
45. (New) An article of manufacture comprising:
- (a) a cleaning pad comprising:
    - (i) a liquid pervious scrubbing layer comprising an apertured formed film; and
    - (ii) an absorbent layer comprising superabsorbent material; and
  - (b) a set of instructions comprising the instruction to clean a hard surface by wiping said hard surface with said cleaning pad.
46. (New) A cleaning implement comprising:
- (a) a handle; and
  - (b) a disposable cleaning pad comprising an absorbent layer and functional cuffs.
47. (New) The cleaning implement of Claim 46, wherein said functional cuffs are looped.
48. (New) A cleaning pad comprising:
- (a) an absorbent layer; and
  - (b) functional cuffs.
49. (New) The cleaning pad of Claim 48, wherein said functional cuffs are looped.
50. (New) A cleaning sheet comprising:
- (a) a nonwoven substrate; and
  - (b) functional cuffs.
51. (New) The cleaning sheet of Claim 50, wherein said functional cuffs are looped.
52. (New) A cleaning implement comprising:
- (a) a handle; and
  - (b) a disposable cleaning sheet comprising:
    - (i) nonwoven substrate; and
    - (ii) functional cuffs.
53. (New) The cleaning implement of Claim 52, wherein said functional cuffs are looped.

54. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a cleaning pad comprising an absorbent layer comprising a density gradient.

55. (New) The cleaning implement of Claim 54, wherein said cleaning pad further comprises a first absorbent layer and a second absorbent layer; wherein said first absorbent layer has a density of from about  $0.01 \text{ g/cm}^3$  to about  $0.15 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein said density of said first absorbent layer is at least about  $0.04 \text{ g/cm}^3$  less than said density of said second absorbent layer.

56. (New) The cleaning implement of Claim 55, wherein said first absorbent layer has a density of from about  $0.03 \text{ g/cm}^3$  to about  $0.1 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.1 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein said density of said first absorbent layer is at least about  $0.07 \text{ g/cm}^3$  less than said density of said second absorbent layer.

57. (New) The cleaning implement of Claim 56, wherein said first absorbent layer has a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.06 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.12 \text{ g/cm}^3$  to about  $0.17 \text{ g/cm}^3$ , wherein said density of said first absorbent layer is at least about  $0.1 \text{ g/cm}^3$  less than said density of said second absorbent layer.

58. (New) A cleaning pad comprising an absorbent layer comprising a density gradient; wherein said cleaning pad has a resiliency of at least about 95%.

59. (New) A cleaning pad comprising:

- (a) at least one absorbent layer; and
- (b) at least one additional element selected from the group consisting of:
  - (i) a liquid pervious scrubbing layer comprising an apertured formed film;
  - (ii) at least one functional cuff;
  - (iii) a density gradient throughout at least one absorbent layer; wherein the density gradient preferably comprises a first absorbent layer having a density of from about  $0.01 \text{ g/cm}^3$  to about  $0.15 \text{ g/cm}^3$ , and a second absorbent layer having a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein the density of the first absorbent layer is about  $0.04 \text{ g/cm}^3$ ; and combinations thereof.

60. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a removable cleaning pad comprising:

- (i) at least one absorbent layer;
- (ii) optionally, a liquid pervious scrubbing layer;
- (iii) optionally, an attachment layer;
- (iv) optionally, multiple planar surfaces;
- (v) optionally, at least one functional cuff;
- (vi) optionally, a density gradient throughout at least one absorbent layer; and
- (vii) optionally, at least one adhesive scrubbing strip removably attached to said cleaning pad; and
- (viii) optionally, perfume carrier complex.

61. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises an adhesive scrubbing strip removably attached to said cleaning pad, wherein said adhesive scrubbing strip comprises material selected from the group consisting of nylon, polyester, polypropylene, abrasive material, and mixtures thereof.

62. (New) The cleaning implement of Claim 61, wherein said adhesive scrubbing strip comprises nylon.

63. (New) The cleaning implement of Claim 62, wherein said adhesive scrubbing strip further comprises abrasive material.

64. (New) The cleaning implement of Claim 63, wherein said abrasive material is selected from the group consisting of silicon carbide, aluminum oxide, calcium carbonate, and mixtures thereof.

65. (New) The cleaning implement of Claim 61, wherein a ratio of an area of a surface of said cleaning pad and an area of a surface of said adhesive scrubbing strip is from about 840:1 to about 3:1.

66. (New) The cleaning implement of Claim 65, wherein said ratio is from about 56:1 to about 18:1.

67. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises a perfume carrier complex selected from the group consisting of cyclodextrin inclusion complex, matrix perfume microcapsules, and mixtures thereof.

68. (New) The cleaning implement of Claim 67, wherein said perfume carrier complex is located in said absorbent layer of said cleaning pad.

69. (New) The cleaning implement of Claim 68, wherein said perfume carrier complex is a cyclodextrin inclusion complex.

70. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises at least two layers selected from the group consisting of absorbent layer, liquid pervious scrubbing layer, attachment layer, and combinations thereof, wherein said layers are bonded together by an adhesive capable of providing a bond with a bond retention of at least about 30% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

71. (New) The cleaning implement of Claim 70, wherein said adhesive is capable of providing a bond with a bond retention of at least about 50% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

72. (New) The cleaning implement of Claim 71, wherein said adhesive capable of providing a bond with a bond retention of at least about 70% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

73. (New) A hard surface cleaning composition comprising:

- (a) optionally, from about 0.001% to about 0.5% by weight of the composition of surfactant;
- (b) optionally, hydrophilic polymer;
- (c) optionally, organic solvent;
- (d) optionally, from about 0.01% to about 1% by weight of the composition of mono- or polycarboxylic acid;
- (e) optionally, from about 0.01% to about 1% by weight of the composition of odor control agent, preferably cyclodextrin;
- (f) optionally, a source of peroxide;
- (g) optionally, from about 0.001% to about 0.1% by weight of the composition of thickening polymer;
- (h) aqueous solvent system;
- (i) optionally, suds suppressor;
- (j) optionally, from about 0.005% to about 0.2% by weight of the composition of a perfume comprising:
  - (i) optionally, from about 0.05% to about 90% by weight of the perfume of volatile, hydrophilic perfume material;

- (ii) optionally, at least about 0.2% by weight of the perfume of volatile, hydrophobic perfume material;
- (iii) optionally, less than about 10% by weight of the perfume of residual, hydrophilic perfume material;
- (iv) less than about 10% by weight of the perfume of residual, hydrophobic perfume material;
- (k) optionally, a detergent adjuvant.

74. (New) The composition of Claim 73, wherein said composition comprises from about 0.005% to about 0.2% by weight of said composition of perfume, wherein said perfume comprising:

- (a) optionally, from about 0.05% to about 90% by weight of the perfume of volatile, hydrophilic perfume material;
- (b) optionally, at least about 0.2% by weight of the perfume of volatile, hydrophobic perfume material;
- (c) optionally, less than about 10% by weight of the perfume of residual, hydrophilic perfume material;
- (d) less than about 10% by weight of the perfume of residual, hydrophobic perfume material.

75. (New) The composition of Claim 74, wherein said composition comprises from about 0.001% to about 0.5% by weight of the composition of surfactant, wherein a ratio of said surfactant to said perfume is from about 20:1 to about 1:50.

76. (New) The composition of Claim 75, wherein said ratio of said surfactant to said perfume is from about 1:1 to about 1:4.

77. (New) The composition of Claim 73, wherein said composition comprises from about 0.25% to about 7% by weight of said composition of organic solvent, wherein said organic solvent has a boiling point of from about 120°C to about 180°C.

78. (New) The composition of Claim 77, wherein said organic solvent is a glycol ether.

79. (New) The composition of Claim 73, wherein said composition comprises no greater than about 0.5% of slowly volatile material having a boiling point of greater than about 160°C.

80. (New) The composition of Claim 79, wherein said slowly volatile material is selected from the group consisting of non-volatile surfactant, amine buffer, organic solvent, and mixtures thereof.

81. (New) The composition of Claim 80, wherein said composition comprises no greater than about 0.425% of slowly volatile material having a boiling point of greater than about 160°C.

82. (New) A method of cleaning a hard surface comprising the steps of:

- (a) contacting the surface with a cleaning implement comprising a handle and a removable, dry, cleaning substrate to remove dust and fine particulate matter from the surface;
- (b) contacting the surface with a hard surface cleaning composition to wet the surface;
- (c) contacting the wet surface with a cleaning implement comprising a handle and a removable cleaning pad to substantially remove the hard surface cleaning composition from the surface; and
- (d) allowing the surface to dry without rinsing the surface with a separate rinse solution.

83. (New) The method of Claim 82, wherein said removable, dry, cleaning substrate is a nonwoven hydroentangled cleaning sheet.

84. (New) A method of cleaning hard surfaces comprising the steps of:

- (a) contacting the surface with a cleaning implement comprising a handle and a removable, dry, cleaning substrate to remove dust and fine particulate matter from the surface;
- (b) contacting the surface with a cleaning implement comprising a handle and a removable, pre-moistened cleaning wipe to remove additional soil from the surface; and
- (c) allowing the surface to dry without rinsing the surface with a separate rinse solution.

85. (New) The method of Claim 84, wherein said removable, dry, cleaning substrate is a nonwoven hydroentangled cleaning sheet.

86. (New) A cleaning implement, comprising:

a handle;

a support head pivotally attached to said handle;

a cleaning substrate removeably attached to the support head, wherein said cleaning substrate has an absorbent capacity of at least about 5 g/g; and

a liquid delivery system for providing a cleaning liquid to a surface to be cleaned, wherein said liquid delivery system is configured to spray at least about 2 mils/sec of a cleaning liquid.

87. (New) The cleaning implement of claim 86, wherein said liquid delivery system is configured to spray the cleaning liquid onto a surface with a spray efficiency of at least about  $0.000006 \text{ mils}/(\text{sec} \times \text{cm}^2 \times \text{g/g})$ .
88. (New) The cleaning implement of claim 86, wherein said cleaning substrate has a squeeze-out value of no more than about 40%.
89. (New) The cleaning implement of claim 88, wherein said liquid delivery system is configured to spray the cleaning fluid on to a surface with a cleaning efficiency of at least about  $0.0006 \text{ mils}/(\text{sec} \times \text{cm}^2 \times \text{unit squeeze-out})$ .
90. (New) The cleaning implement of claim 86, wherein the liquid delivery system is configured to spray the liquid onto a surface with a spray efficiency of at least about  $0.0002 \text{ mils}/(\text{sec} \times \text{cm}^2)$ .
91. (New) The cleaning implement of claim 86, wherein the liquid delivery system comprises a spray nozzle, a pump in fluid communication with said spray nozzle, an electric motor driving said pump, a voltage source powering said motor, and a liquid filled canister in fluid communication with said pump.
92. (New) The cleaning implement of claim 91, wherein the spray nozzle is configured to provide a spray angle of at least about 30 degrees.
93. (New) The cleaning implement of claim 92, wherein the said spray nozzle is configured to provide an average particle size of at least about  $100 \mu\text{m}$ .
94. (New) The cleaning implement of claim 91, wherein said spray nozzle is configured to provide an exit velocity of at least about 0.009 cm/sec.

95. (New) The cleaning implement of claim 91, wherein said voltage source is a plurality of batteries and wherein said batteries are configured to provide a voltage of at least about 1.5 volts.
96. (New) The cleaning implement of claim 95, wherein said voltage is supplied for at least about 5 minutes of continuous pump operation.
97. (New) The cleaning implement of claim 91, wherein said pump is configured to spray the cleaning liquid at a spray nozzle inlet pressure of 6 Kpa.
98. (New) The cleaning implement of claim 91, wherein said pump has an efficiency of at least about 3%.
99. (New) The cleaning implement of claim 91, wherein said motor has an efficiency of at least about 50%.
100. (New) The cleaning implement of claim 86, wherein said liquid delivery system is configured to provide a spray pattern having a spray depth of at least about 20 cm.
101. (New) The cleaning implement of claim 100, wherein said liquid delivery system is configured to provide a spray pattern having a spray width of at least about 20cm.
102. (New) The cleaning implement of claim 86, wherein said handle has a deflection of less than about 15 mm.
103. (New) A cleaning implement, comprising:
- a handle;
  - a support head pivotally attached to said handle;
  - a cleaning substrate removeably attached to the support head; and
  - a hand-held liquid sprayer removeably attached to the cleaning implement for dispensing a liquid onto a surface to be cleaned.



104. (New) The cleaning implement of claim 103, wherein said hand-held liquid sprayer is stored within a cage attached to said handle.

105. (New) The cleaning implement of claim 103, wherein said hand-held liquid sprayer further comprises a cleaning liquid.

106. (New) An article of manufacture, comprising:

a package;

a hand-held liquid sprayer stored within said package;

a set of instructions in association with said package comprising an instruction to use said hand-held liquid sprayer with a mop having a mop head and a cleaning substrate removeably attached to the support head.

107. (New) An article of manufacture, comprising:

a package;

a mop having a handle, a mop head pivotally attached to said handle, said mop head configured to removeably receive a cleaning substrate; and

a set of instructions in association with said package comprising an instruction to use a hand-held liquid sprayer with said mop for cleaning.

108. (New) A kit, comprising:

a cleaning substrate;

a container for use with a hand-held liquid sprayer and storing a cleaning liquid; and

a structure for releaseably receiving said container, said structure configured to attach to a cleaning implement.

109. (New) The kit of claim 108, wherein said structure is a cage.

110. (New) An article of manufacture, comprising:

a mop having a handle, a mop head pivotally attached to said handle, said mop head configured to removeably receive a cleaning substrate, and a spray nozzle attached to said mop;

a package storing said mop; and

a set of instructions in association with said package comprising an instruction to move said mop in a predetermined pattern.

111. (New) The article of manufacture of claim 110, wherein said set of instructions further comprises an instruction to move said mop in said predetermined pattern above the surface to be cleaned.

112. (New) The article of manufacture of claim 110, wherein said set of instructions further comprises an instruction to move said mop in said predetermined pattern on the surface to be cleaned.

113. (New) The cleaning implement of claim 86, further comprising a scrubbing strip.


114. (New) The cleaning implement of claim 113, wherein said scrubbing strip is attached to said mop head.

REMARKS

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."

The amendment is being made to bring the claims into conformance with, *inter alia*, 37 C.F.R. § 1.75.

Respectfully submitted for Applicants,

By:   
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Claims 1-28 have been canceled without prejudice.

New Claims 29-114 have been added.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the U.S. National Phase Entry  
Under 35 USC 371 from  
International Application of  
POLICICCHIO, Nicola et al.  
Int'l. Application No. PCT/US99/26579  
Filed in the RO/US on 09 November 1999  
Entitled: *Cleaning Composition, Pad, Wipe,  
Implement, And System and Method of Use Thereof*

ASSOCIATE POWER OF ATTORNEY

Assistant Commissioner for Patents  
Box PCT  
Washington, D.C. 20231

Dear Sir:

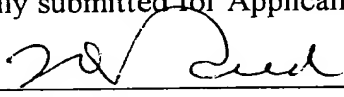
You are requested to recognize J. V. Bamber (Registration No. 31,148), J. J. Camp (Registration No. 44,582), B. M. Bolam (Registration No. 37,513) and F. C. Turner (Registration No. 39,863) of The Procter & Gamble Company, Cincinnati, Ohio, as Associate Attorneys to prosecute this application, to make alterations and amendments therein, and to transact all business in the Patent Office connected with the application or with the patent granted thereupon.

Please address all future communications to:

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